



# PRECIPITATION SENSOR "rain[e]"

## Weighing precipitation sensor

# rain[e]



The first of a new kind.

Latest weighing technology combined with a self-emptying precision tipping bucket allows the rain[e] a high resolution and high precision at a very small construction volume. Already the first drop will be measured! The rain[e] is ideal to setup new measurement network as well as addition to an existing rainfall measurement network.

- amazing resolution and accuracy
- checking of sensors with tipping bucket and other weighing systems
- compact and robust construction with a very low weight
- all-metal housing, weatherproof and durable
- best connectivity by several interfaces
- installation and maintenance are very simple

classical meteorology and hydrology

- measuring networks of water suppliers
- lysimeter systems
- sewage plants
- Weather services
- airports
- traffic meteorology

Professional Line	rain[e]	Weighing precipitation sensor
<b>rain[e], unheated</b> Measuring principle: Operating temperature: Collecting area: Amount measuring range: Amount resolution: Amount accuracy: Intensity range: Intensity resolution: Intensity accuracy: Standards:  Protection class weighing cell: Current consumption:  Supply voltage: Signal outputs:	<b>Id-No. 00.15184.000 000</b> weighing with automatic self emptying 0...+70 °C (unheated) 200 cm <sup>2</sup> without limitation (0.005...∞ mm) 0.001 mm (pulse output: 0.01 mm) ± 0.1 mm or ± 1 % at < 6 mm/min and ± 2 % at > 6 mm/min 0...20 mm/min      resp. 0...1200 mm/h 0.001 mm/min      resp. 0.001 mm/h ± 0.1 mm/min      resp. ± 6 mm/h WMO-No. 8 • VDI 3786 Bl. 7 • EN 61000-2, -4 • EN 61000-4-2, -3, -4, -5, -6, -11 NAMUR NE-21 IP67 max. 45 mA at 24 V power supply and analogue output • typ. 6.5 mA at 24 V power supply and pulse output · typ. 10.5 mA at 12 V 9.8...32 V DC · SDI-12 • RS-485 (SDI-12 protocol, ASCII protocol, TALKER protocol) · 2 Pulse-Outputs for linearised, bounce-free output signal · Status-Output (configurable, e.g. rain yes/no or heating on/off) · Analogue output 0/4...20 mA (0...2.5/5V)	
<b>rain[e], heated</b> <i>Data like rain[e] 00.15184.000 000, but in addition with controlled 2-circuit-heating</i> Target temperature (heating): Heating power: Supply voltage: Operating temperature:	<b>Id-No. 00.15184.400 000</b> +2 °C funnel surface temperature 80 W (funnel) • 60 W (outlet/ tipping bucket) 24 V DC / 2 heating circuits 80 W and 60 W -40...+70 °C (no icing, no snowdrift)	